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ELECTROPHORETIC DISPLAY PANEL

#### Abstract:

**PURPOSE:** To confine a display liquid into microregions and to facilitate the easy injection of the display liquid by forming many approximately spherical cavities communicating with each other into a hermetic space.

**CONSTITUTION:** A transparent substrate 6d formed with transparent electrodes 6c and a rear insulating substrate 6a are fixed apart a required spacing via a spacer 6b to form the hermetic space and the many approximately spherical cavities communicating with each other are formed in this hermetic space. The panel is constructed by preparing the approximately spherical beads solvent soluble in a solvent and holding the same with polyvinyl alcohol. The 2nd substrate is laminated as the rear insulating substrate 6a via the spacer 6b to form an electrophoretic cell 6 and thereafter, acetone is injected into the cell to dissolve away the uni-resin beads. After the approximately spherical cavities communicating with each other are formed in such a manner, the acetone is removed and the display liquid is injected. The display liquid is confined into the microregions in this way and the injection of the

display liquid is facilitated.

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